Figure 1

T7 DNA polymerase (Gene5)

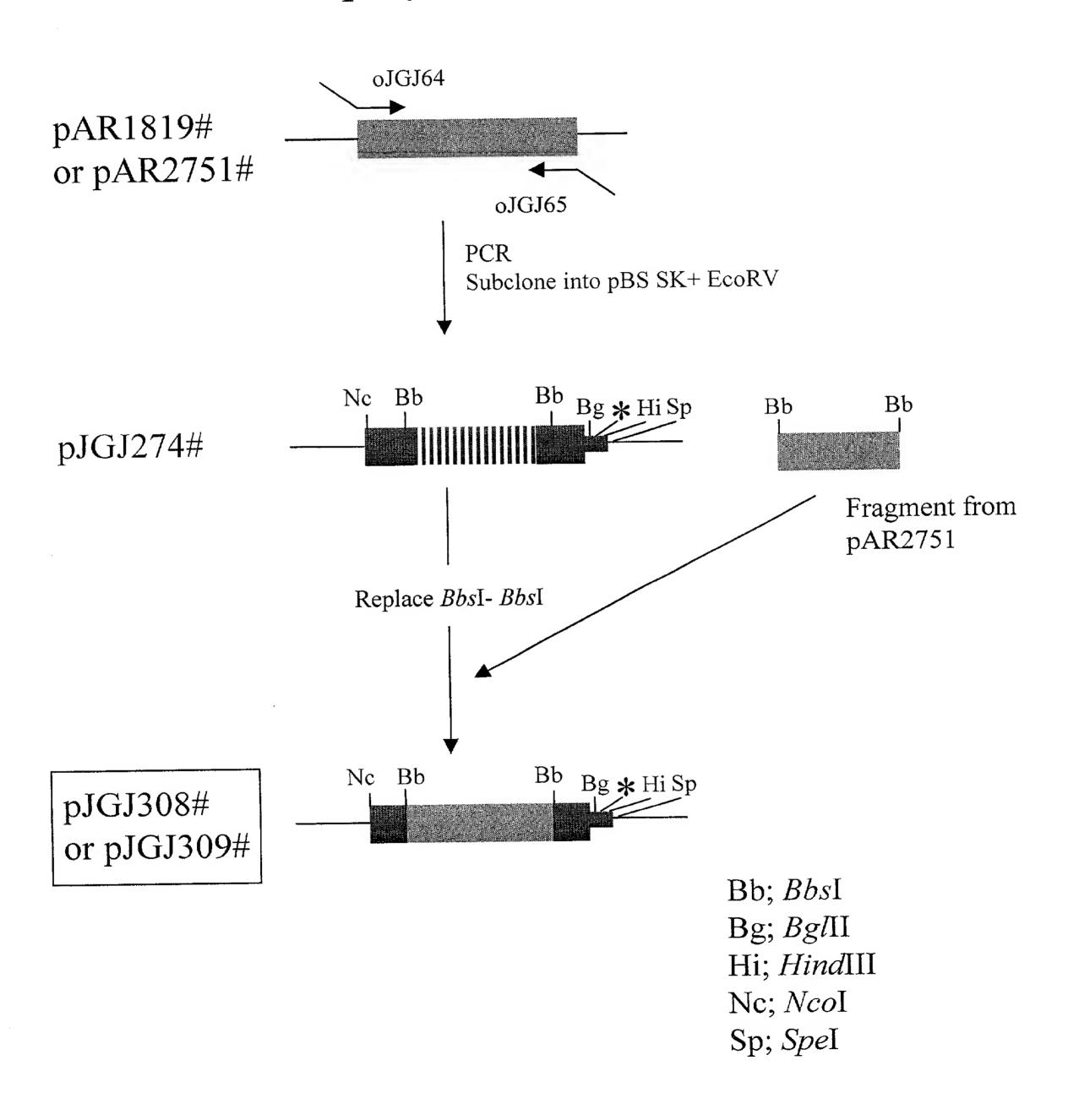
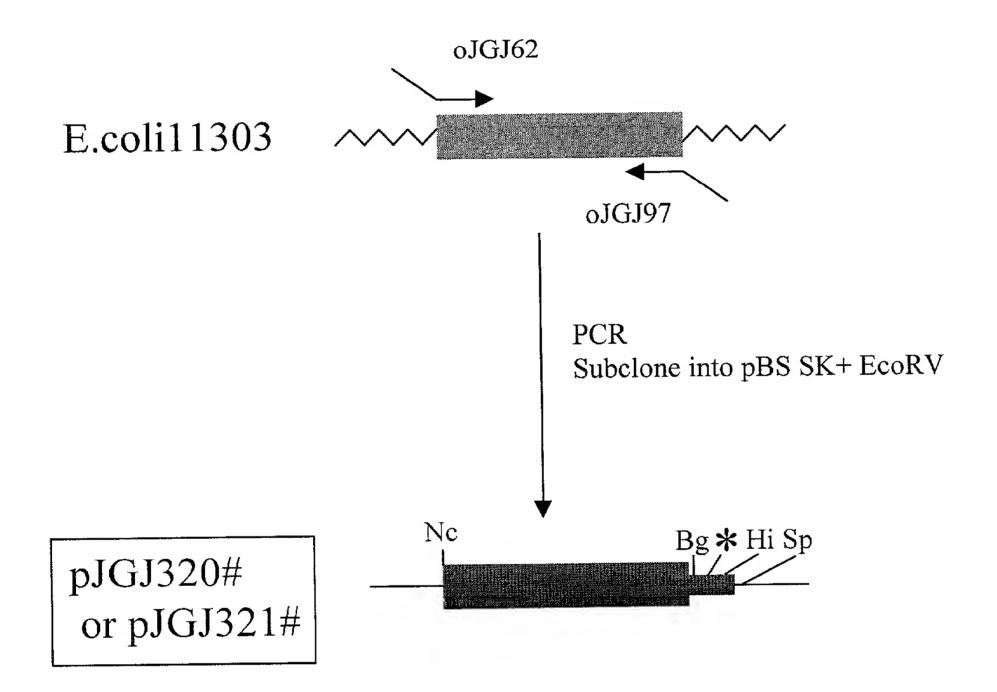


Figure 2
TrxA gene



Bg; BglII Hi; HindIII Nc; NcoI

Sp; SpeI



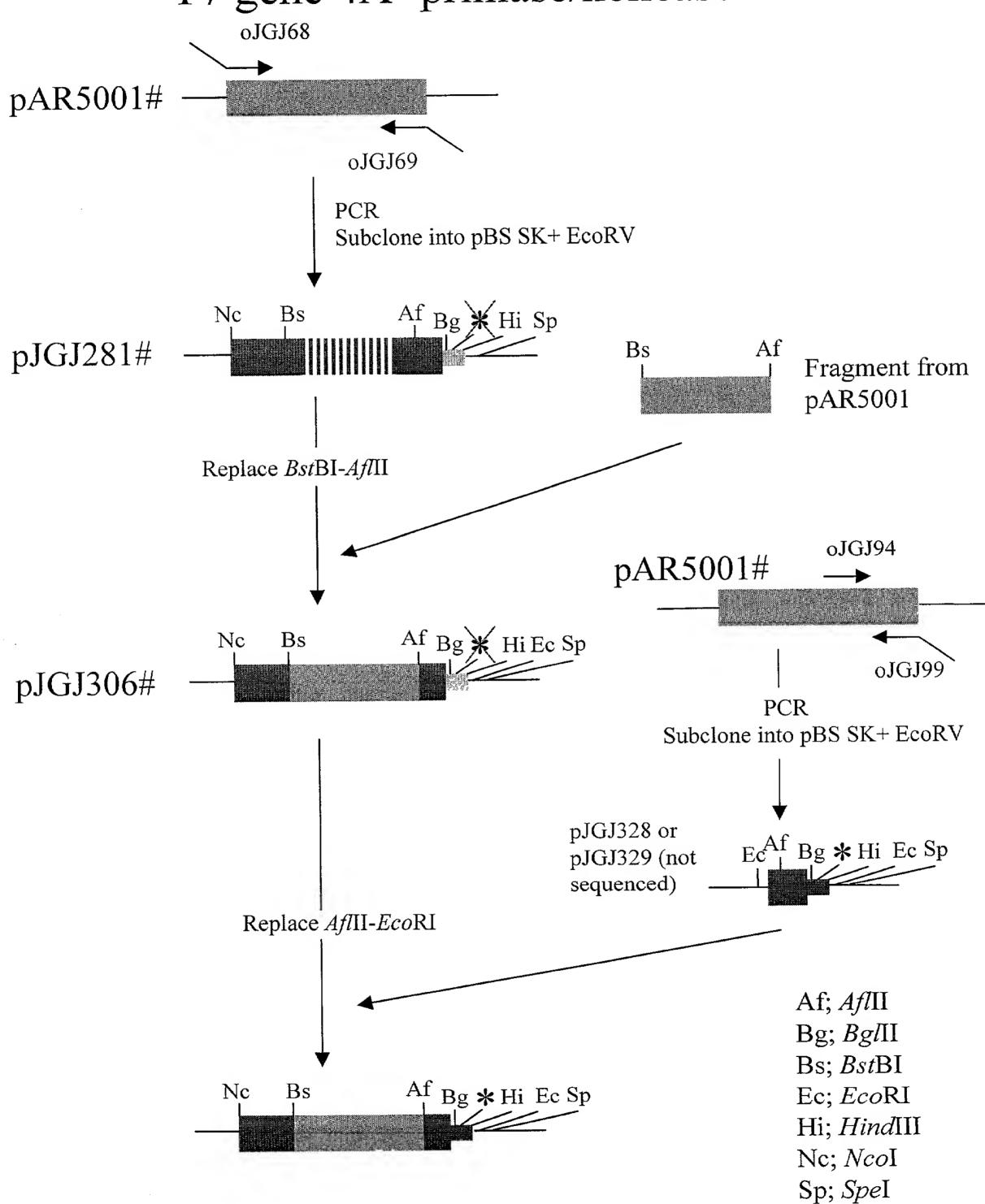


Figure 4

T7 RNA polymerase genes

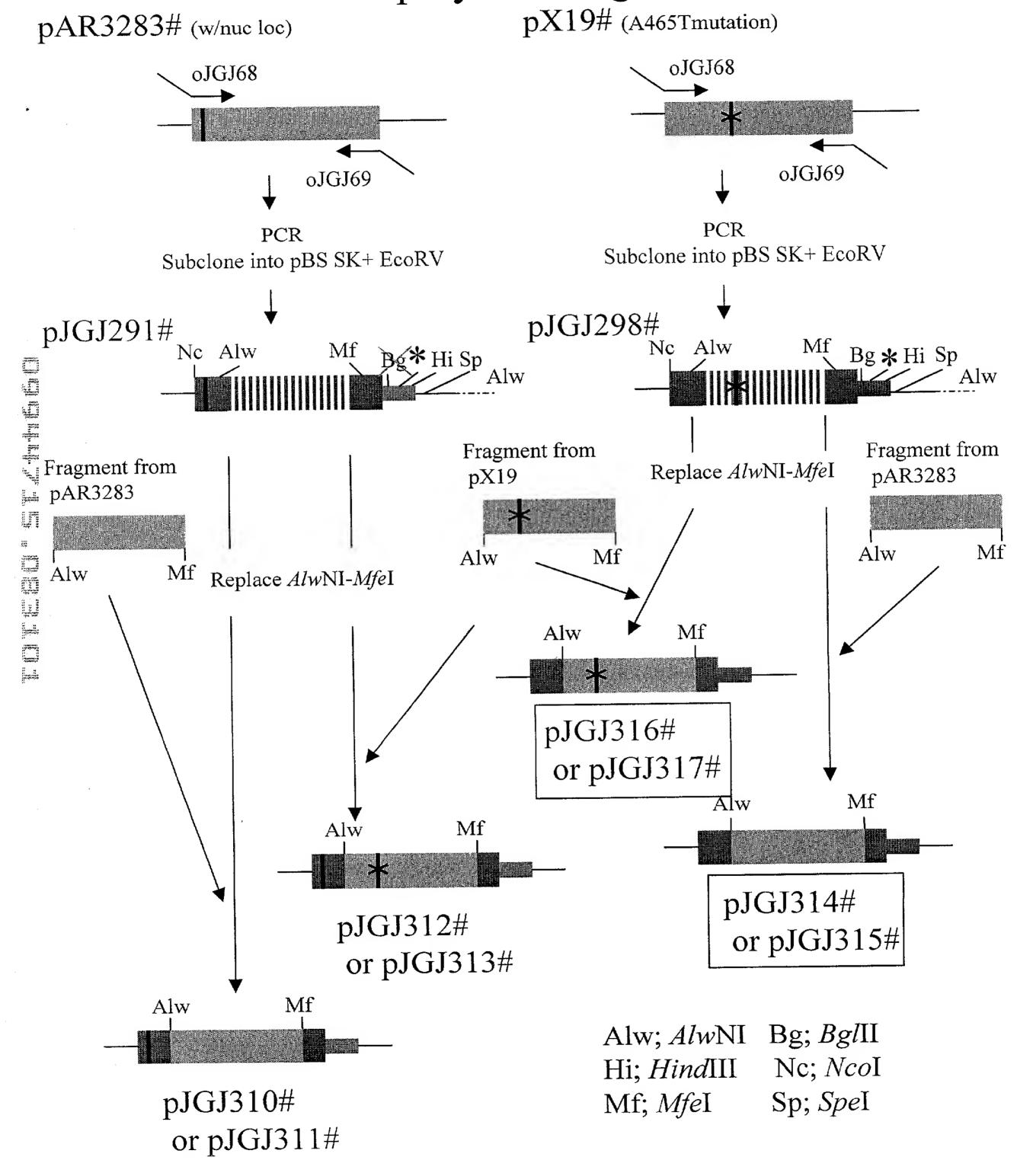


Figure 5

T7 RNA polymerase

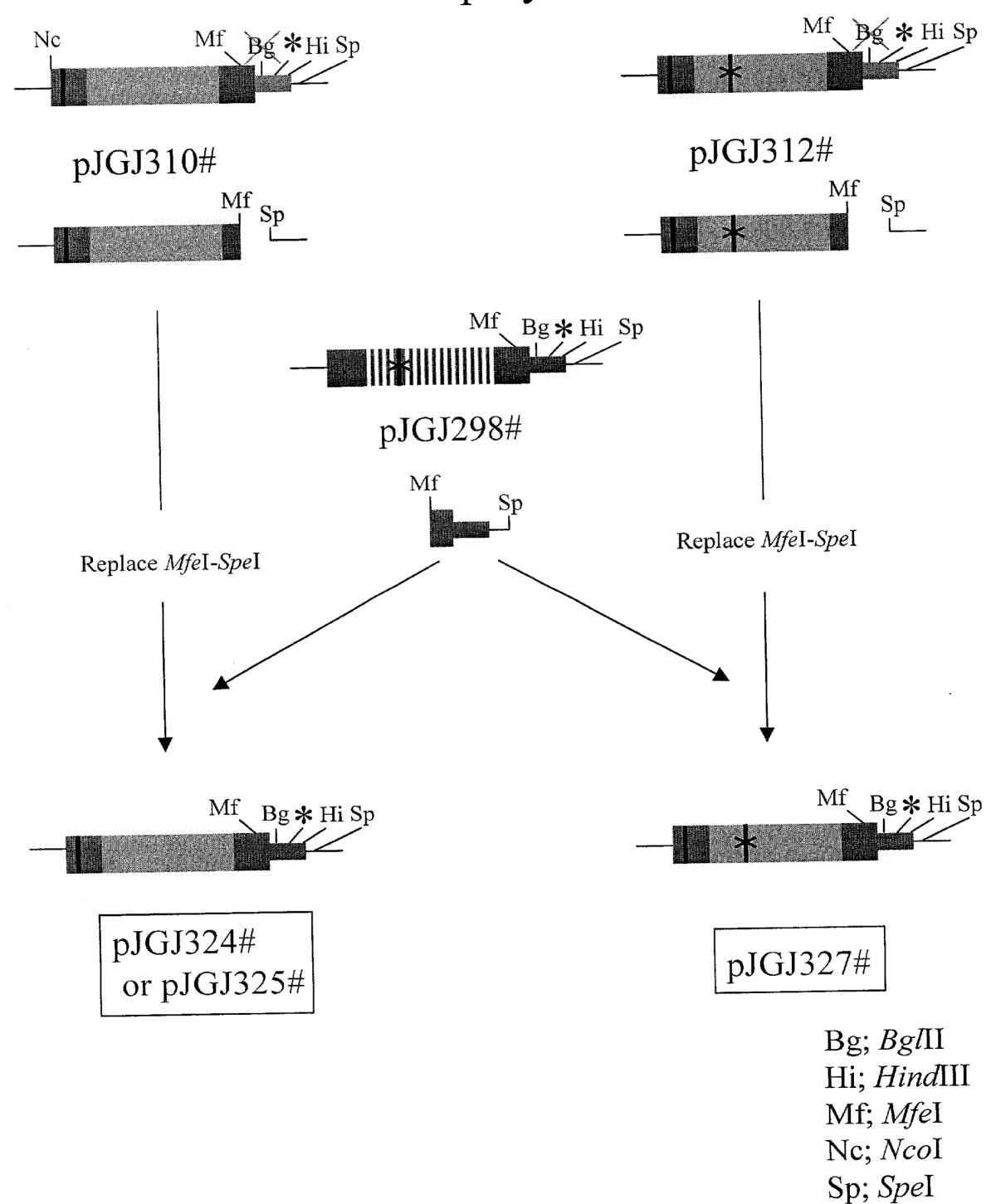


Figure 6
Generalized Subcloning into pCAMBIA vectors

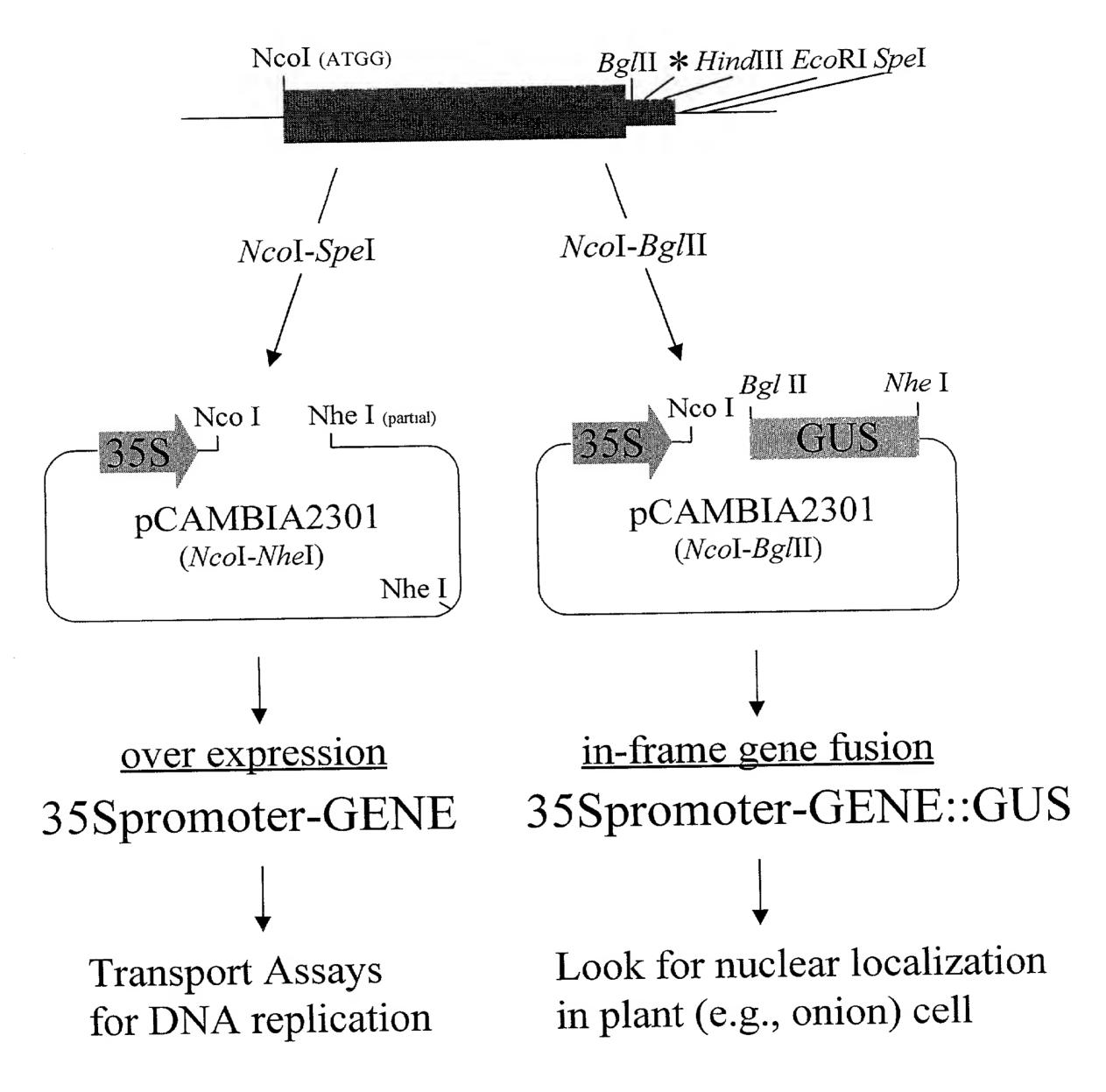
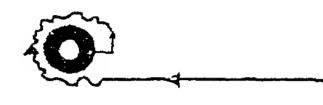


Figure 7 Rolling circle replication of artificial episomes



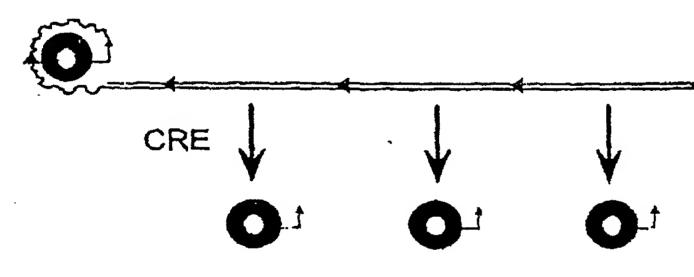
Artificial episome with T7 promoter and lox site.



Leading strand DNA synthesis by T7 DNA pol, resulting in rolling circle type replication



Lagging strand DNA synthesis by T7 Helicase/primase with T7 DNA polymerase. Resulting in linear concatemers of artificial episome.



CRE recombinase deconcatenates artificial episomes into separate circular molecules that each can intiate another round of rolling circle replication.